What is claimed is:

- 1. A high output lighting device comprising:
- a support bracket having one end with a vertically extended arm and an opposing end with a lighting mounting bracket;
- an optic fiber having an receiving end and an emitting end supported by the vertically extended arm;
- multiple light emitting diodes supported by the lighting mounting bracket, the multiple light emitting diodes being spaced at a fixed distance from the receiving end of the optic fiber and being angled to focus light output on the optic fiber.
- The high output lighting device of claim 1, further comprising a light
 emitting diode reflector assembly for each light emitting diode, the reflector mounted on
 the lighting mounting bracket, the reflector having a conical body with an open end and
 an opposite end holding the light emitting diode, and a heat sink coupled to the opposite
 end.
- The lighting device of claim 2 wherein the conical body has a reflective
 interior surface and is shaped to focus light output from the light emitting diode to the optic fiber end.

- 4. The lighting device of claim 3 wherein the reflective interior surface is coated with evaporated aluminum.
- 5. The lighting device of claim 2 wherein the heat sink has a plate with one
 2 side attached to the conical body and an opposite side having protruding vanes.
- 6. The lighting device of claim 1 further comprising a heat sink thermally coupled to the multiple light emitting diodes.
- 7. The lighting device of claim 1 wherein the optic fiber has a core materialand a surrounding cladding material.
- 8. The lighting device of claim 7 wherein the cladding material has an index
 of refraction which causes total internal reflection from light entering the receiving end of optic fiber.
- 9. The lighting device of claim 8 wherein the optic fiber includes a black
 2 jacket and emits light from the emitting end of the optic fiber.
- The lighting device of claim 8 wherein the cladding material is translucent
 allowing light to leave the optic fiber along the perimeter of the optic fiber.

- 11. The lighting device of claim 8 wherein the optic fiber is bent in a nonlinear shape.
- The lighting device of claim 1, wherein the multiple LEDs emit different
 colors producing a combined color from the optic fiber.
- 13. The lighting device of claim 1, wherein the multiple LEDs emit the same2 color light.
- 14. The lighting device of claim 1 wherein the multiple LEDs are arranged symmetrically in relation to the optic fiber.
- 15. A high output light emitting diode based lighting device, comprising:

 a support bracket having a flat bottom surface and two opposite first and second ends;
- a vertical support arm attached to the first end of the support bracket;
 an optic fiber attached to the vertical support arm, the optic fiber having a core
 material and a surrounding cladding material with a flat receiving end fixed in relation to
 the support bracket;

- a mounting arm attached to the second end of the support bracket, the mounting arm including multiple collars facing the receiving end of the optic fiber; and
- a light emitting diode reflector assembly attached to each of the multiple collars, the light emitting diode reflector assembly having a conical body having an open end mated with the collar, and an opposite closed end holding a light emitting diode.
 - The lighting device of claim 15 wherein the conical body has a reflective
 interior surface and is shaped to focus light output from the light emitting diode to the optic fiber end.
 - 17. The lighting device of claim 16 wherein the reflective interior surface is evaporated aluminum.

2

- 18. The lighting device of claim 15 further comprising a heat sink thermally coupled to the light emitting diodes.
- 19. The lighting device of claim 15 wherein the light emitting diode assembly includes a heat sink having a plate with a top side coupled to the conical body and a bottom side having protruding vanes.

- 20. The lighting device of claim 15 wherein the optic fiber includes a black
 2 jacket and emits light from the emitting end of the optic fiber.
 - 21. The lighting device of claim 15 wherein the cladding material is
- 2 translucent allowing light to leave the optic fiber along the perimeter of the optic fiber.
 - 22. The lighting device of claim 15 wherein the optic fiber is bent in a non-
- 2 linear shape.

2

- 23. The lighting device of claim 15, wherein the multiple LEDs emit different colors producing a combined color from the optic fiber.
- The lighting device of claim 15, wherein the multiple LEDs emit the samecolor light.